



FORM HDP-1449 (Based on Form PTO-1449)

PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Sheet 2 of 2

ATTORNEY DOCKET NO.

3174-000012

SERIAL NO.

09/851,865

APPLICANT

Crapo et al.

FILING DATE

May 9, 2001

GROUP

2834

FOREIGN PATENT DOCUMENTS

Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes	No
2.	BC	JP60013455	✓ 23-01-85	Japan	—	X	
3.	BC	JP63140645	✓ 13-06-88	Japan	—	X	
4.	BC	EP0392028	✓ 17-10-90	Europe	—	X	
5.	BC	EP0483372A1	✓ 06-05-92	Europe	—	X	
6.	BC	EP300042	✓ 25-01-89	Europe	—	X	
7.	BC	JP61199447	✓ 03-09-86	Japan	—	X	
8.	BC	EP0449538A1	✓ 02-10-91	Europe	—	X	
9.	BC	EP0564759A1	✓ 13-10-93	Europe	—	X	

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Ref. Desig.	Examiner's Initials	
1.	BC	Ackermann/Janssen/Sottek/van Steen, "XP-002209198 New technique for reducing cogging torque in a class of brushless DC motors", IEEE Proceeding-B, Vol. 139, No. 4 July 1992, pp. 315-320.
2.	BC	Chen/Bruhl, "XP-000833296 The Robust Design Approach For Reducing Cogging Torque In Permanent Magnet Motors", IEEE Transactions on Magnetics, Vol. 34, No. 4, July 1998, pp. 2135-2137.
3.	BC	Zhu/Howe, "XP-002206342 Influence of Design Parameters on Cogging Torque in Permanent Magnet Machines", IEEE Transactions on Energy Conversion, Vol. 15, No. 4, December 2000, pp. 407-412.

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Date Considered:

2-7-03

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FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 1 of 2	ATTORNEY DOCKET NO.	SERIAL NO.
	3174-000012	09/851,865
	APPLICANT	
	Crapo et al.	
	FILING DATE	GROUP
May 9, 2001	2834	

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.	RC	4,700,098	10/13/1987	Kawashima	310/186	
2.		4,739,203	04/19/1988	Miyao et al.	310/67R	
3.		5,006,745	04/09/1991	Nishio et al.	310/177	
4.		5,034,642	07/23/1991	Hoermann et al.	310/156	
5.		5,164,622	11/17/1992	Kordik	310/67R	
6.		5,250,867	10/05/1993	Gizaw	310/179	
7.		5,388,658	02/14/1995	Ando et al.	180/197	
8.		5,610,464	03/11/1997	Asano et al.	310/156	
9.		5,753,991	05/19/1998	Couture et al.	310/156	
10.		5,886,440	03/23/1999	Hasebe et al.	310/156	
11.		5,982,067	11/09/1999	Sebastian et al.	310/184	
12.		6,031,304	02/29/2000	Suzuki et al.	310/49R	
13.		6,034,459	03/07/2000	Matsunobu et al.	310/156	
14.		6,034,460	03/07/2000	Tajima et al.	310/179	
15.		6,040,647	03/21/2000	Brown et al.	310/89	
16.	V	6,140,728	10/31/2000	Tomita et al.	310/156	
17.	BC	6,262,507	07/17/2001	Sato et al.	310/152	

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FOREIGN PATENT DOCUMENTS						
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1.	RC	JP61199446	03-09-86	Japan		X

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